

**EXHIBIT**

**"A"**

STATE OF TEXAS

§

§

COUNTY OF WILLIAMSON

§

**SUPPLEMENTAL CONTRACT NO. 1  
TO CONTRACT FOR ENGINEERING SERVICES**

**FIRM:** **FREESE AND NICHOLS, INC.** ("Engineer")

**ADDRESS:** **10431 Morado Circle, Suite 300, Austin, TX 78759**

**PROJECT:** **West Wastewater Treatment Plant Force Main**

This Supplemental Contract No. 1 to Contract for Engineering Services is made by and between the City of Round Rock, Texas, hereinafter called the "City" and Freese and Nichols, Inc., hereinafter called the "Engineer".

**WHEREAS**, the City and Engineer executed a Contract for Engineering Services, hereinafter called the "Contract", on the 23rd day of February, 2017 for the West Wastewater Treatment Plant Force Main Project in the amount of \$40,629.00; and

**WHEREAS**, it has become necessary to amend the Contract to modify the provisions for the scope of services and to increase the compensation by \$35,087.00 to a total of \$75,716.00;

**NOW THEREFORE**, premises considered, the City and the Engineer agree that said Contract is amended as follows:

**I.**

Article 1, City Services and Exhibit A, City Services shall be amended as set forth in the attached Addendum To Exhibit A.

**II.**

Article 2, Engineering Services and Exhibit B, Engineering Services shall be amended as set forth in the attached Addendum to Exhibit B. Exhibit C, Work Schedule shall be amended as set forth in the attached Addendum to Exhibit C.

**III.**

Article 4, Compensation and Exhibit D, Fee Schedule shall be amended by increasing by \$35,087.00 the lump sum amount payable under the Contract for a total of \$75,716.00, as shown by the attached Addendum to Exhibit D.

**IN WITNESS WHEREOF**, the City and the Engineer have executed this Supplemental Contract in duplicate.

**FREESE AND NICHOLS, INC.**

**By:** \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
**Date**

**CITY OF ROUND ROCK**

**APPROVED AS TO FORM:**

**By:** \_\_\_\_\_  
**Craig Morgan, Mayor**

\_\_\_\_\_  
**Stephan L. Sheets, City Attorney**

\_\_\_\_\_  
**Date**

## **ADDENDUM TO EXHIBIT A**

### **City Services**

The City of Round Rock will furnish to the Engineer the following items/ information as well as services:

1. Record drawings and documents pertaining to projects in the area, including easement documents, construction plans, test records, aerial photography, topography, system maps, etc.
2. CAD files for the 2012 "BCRWWS West Wastewater Treatment Plan Rehabilitation Project" will be provided by City of Round Rock.
3. City of Round Rock Standard Design Details and Specifications.
4. Perform Tree Survey of the alignment and procure necessary tree permits.
5. Advertise and distribute Bid Documents.
6. Facilitate the Pre-Bid Meeting.
7. The City of Round Rock will be responsible for environmental compliance with all local, state, and federal laws. The Engineer will perform one site visit for environmental investigation and will communicate findings to the City of Round Rock.

## **ADDENDUM TO EXHIBIT B**

### **Engineering Services**

#### **Project Description**

Provide additional design, bid and construction phase services for replacement of existing pumps and valves for the WAS Lift Station at the West Wastewater Treatment Plant. Also, develop metes and bounds for proposed pipeline easement, confirm no environmental issues exist, design new duplex pump control panel and inspect electrical and control equipment to ensure it is compatible with proposed pumps.

#### **Basic Services:**

##### Project Management

1. Update the Quality Assurance & Quality Control Plan for the project.
2. Provide monthly progress reports and invoices to the City of Round Rock (City).
3. Manage project integration, scope, schedules, cost, quality, staff resources, subconsultants, communications, risk and procurements as necessary.

##### Preliminary Design Phase

1. Perform system curve calculations. Confirm existing pumps need replacement.
2. Perform site visit to inspect existing pumps/valves and determine scope of electrical work required to replace existing pumps.
3. Provide metes and bounds documentation for Dedication for Wastewater Line Easement around new forcemain and existing 27" sanitary sewer line, by subconsultant.

##### Design Phase

1. Identify and recommend proposed pumps.
2. Confirm pipe size for new forcemain.
3. Environmental investigation including one (1) site visit to perform a pedestrian survey of the proposed ROW to verify that no environmental issues are present and a documenting memorandum.
4. Provide 30% Pump Replacement Submittal.
5. Provide 30% plans and specifications for new duplex pump control panel.
6. Provide 30% plans and specifications for new submersible power cable from the pumps to the SS terminal cabinet and from the terminal cabinet to the new pump control panel.
7. Produce additional 95% Specifications.
8. Produce additional 95% Plans (11"x17").
9. Perform Constructability Review on additional Plans/Specifications.
10. Provide additional cost items for 95% Opinion of Probable Construction Cost.
11. Provide additional Bid Plans and Specifications for pump and electrical design.

##### Bidding Phase

1. Produce additional sheets to incorporate into Conformed Plans and Specifications.

### Construction Phase

1. Review additional submittals associated with the project (10 additional submittals maximum).
2. Review additional RFI's associated with the project (2 additional RFIs maximum).
3. Perform one additional site visit and one additional monthly progress meetings during construction duration.
4. Produce additional sheets to incorporate into Record Drawings.

### **Additional Services:**

The following services are not included in the scope of work. These services can be added by amendment.

### Design Phase

1. Design additional electrical improvements:
  - a. Replacing SCADA instrumentation.
  - b. Replacing existing conduits for new power cabling.
  - c. Replacing the feeder and/or circuit breakers upstream of the pump control panel.
  - d. Additional site visits beyond a site visit during preliminary design.
2. Additional Environmental Investigation:
  - a. Desktop reviews for wetlands and federally-listed species habitat.
  - b. Permitting coordination.

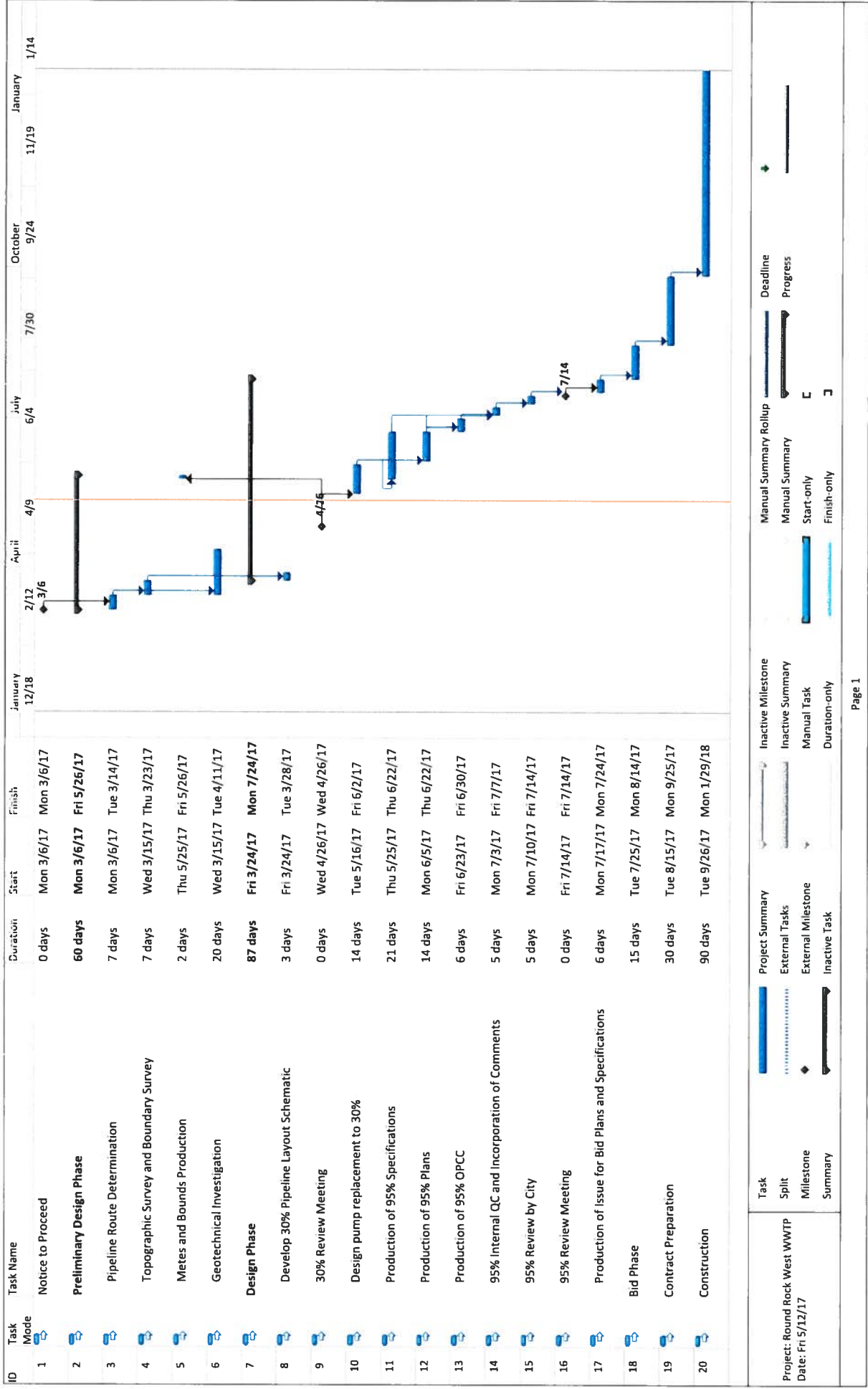
### **Assumptions:**

1. CAD files for the 2012 "BCRWWS West Wastewater Treatment Plan Rehabilitation Project" will be provided by City.
2. New pump horsepower is anticipated to be the same, or less than, the existing pump horsepower.
3. A new duplex pump station control panel will be designed. Existing feeder to Blower building is assumed to be adequate and will be reused to re-feed new control panel. Control panel to be mounted in same location as existing.
4. Existing control/monitoring wiring from pump control panel to SCADA terminal cabinet is assumed to be adequate and will be re-used. Operation and monitoring of control panel/pumps shall remain the same. It is assumed that no SCADA modifications will be required under this contract.
5. The existing instrumentation will be re-used. This includes the level sensor/transmitter and the combustible gas sensor/analyzer/control panel.
6. Existing conduit for the new cabling is adequate and will be re-used.
7. Existing floats will be re-used and re-configured for anticipated wet well liquid levels.
8. Existing wet well and valve vault will be re-used.
9. A maximum of one addendum will be issued.
10. The construction phase for the project will not exceed.

**ADDENDUM TO EXHIBIT C**  
**Work Schedule**

Attached Behind This Page

Exhibit C - West Wastewater Treatment Plant Force Main - Supplemental Services Contract No. 1





**ADDENDUM TO EXHIBIT D**  
**Fee Schedule**

Attached Behind This Page

**Exhibit D**  
**Fee Schedule**

**Project Name:** West Wastewater Treatment Plant Force Main - Supplemental Services Contract No. 1

Task	Total Labor Hours	Total Loaded Labor Cost	Other Direct Costs	Subconsultants	TOTALS
Task 1: Surveying	0	\$0.00	\$0.00	\$4,043.00	\$4,043.00
Task 2: Geotechnical Investigation	0	\$0.00	\$0.00	\$0.00	\$0.00
Task 3: Project Management, Preliminary Design and Final Design	144	\$24,316.00	\$409.00	\$0.00	\$24,725.00
Task 4: Bid Phase	3	\$524.00	\$0.00	\$0.00	\$524.00
Task 5: Construction Phase	39	\$5,634.00	\$161.00	\$0.00	\$5,795.00
<b>GRAND TOTAL:</b>	186	\$30,474.00	\$570.00	\$4,043.00	<b>\$35,087.00</b>

\* Rates for additional work are shown in Exhibit D-1 of the West Wastewater Treatment Plant Force Main contract

City of Round Rock West Wastewater Treatment Plant Force Main Amendment No. 1 5/16/2017 Detailed Cost Breakdown														
Project Fee Summary														35,087
Basic Services														-
Special Services														-
Total Project														35,087

Basic Services																												
Phase	Task	Tasks &	Current Hourly Bill Rate →	Employee	Project Role	Arce Carrel Hobbs	Kira Miles	Dawn Hadley	David Bennett	Drew Harkin	Richard Proffitt	Brian Beach	Wade Zombka	John Manning	David Buchanan	Ten Duon	Kelley Calvez	Tam Tran	Sabrina Joshi	Billy Metzger	Eric Dori	Total Hours	Total Labor Effort	Total Expense Effort	Total Sub Effort	Total Effort		
Project Management	Update the Quality Assurance & Quality Control Plan					1	1																					
	Provide monthly progress reports and invoices to the City of Round Rock (City)					4																						
	Manage project integration, scope, schedules, cost, quality, staff resources, subconsultants, communications, risk and procurements as necessary																											
	Preliminary Design																											
	Perform system curve calculations					1	1																					
	Confirm existing pumps need replacement					1																						
	Site visit to inspect pumps/valves and electrical					3																						
	Provide notes and bounds documentation (by Subconsultant)																											
	Design Phase																											
	Identify and recommend proposed pumps					1	1																					
	Confirm pipe size for new forcemain					1																						
	Environmental investigation and documentation memo																											
	Produce additional 95% Specifications					1	4		1																			
	Produce additional 95% Plans					1	4	12	1																			
	Constructability Review on additional Plans/Specifications									4																		
	95% Opinion of Probable Construction Cost																											
	Additional QC									2	2																	
	Bid Plans and Specifications							8																				
	Bidding Phase																											
	Produce additional addenda, if necessary																											
	Produce additional sheets to incorporate into Confirmed Plans and Specifications					1					2																	
	Construction Phase																											
	Review additional submittals					1	1																					
	Review additional RFI's					1	1																					
	Perform one additional site visit and one additional monthly progress meeting during construction					4																						
	Perform final walk through for Electrical Work																											
	Produce additional sheets to incorporate into Record Drawings					1	1	4																				
Total Basic Services Hours						8	26	24	4	2	6	2	4	7	76	1	4					15	181					

Phase	Task	Expenses	Tech Charge	Miles	Meals	Hotel	B&W (sheet)	Color (sheet)	Binding (each)	Bond - B&W (sq. ft.)	LG Form - Glass/My ar - B&W (sq. ft.)	Other	Other	Other	Other	Total Exp Effort
	Project Management															
	Update the Quality Assurance & Quality Control Plan															
	Provide monthly progress reports and invoices to the City of Round Rock (City)															
	Manage project integration, scope schedules, cost, quality, staff resources, subconsultants, communications, risk and procurements as															

City of Round Rock West Wastewater Treatment Plant Force Main Amendment No. 1 5/16/2017 Detailed Cost Breakdown										Project Fee Summary	
										Basic Services	35,087
										Special Services	-
										Total Project	35,087
Preliminary Design											
Perform system curve calculations	1										
Confirm existing pumps need replacement											
Site visit to inspect pumps/valves and electrical	300										161
Provide notes and bounds documentation (by Subconsultant)											
Design Phase											
Identify and recommend proposed pumps	1										
Confirm pipe size for new forceman	1										
Environmental investigation and documentation memo											
Produce additional 95% Specifications	4					200					20
Produce additional 95% Plans	4							415			104
Constructability Review on additional Plans/Specifications											
95% Opinion of Probable Construction Cost											
Bid Plans and Specifications						200					124
Bidding Phase											
Produce additional addenda, if necessary											
Produce additional sheets to incorporate into Confirmed Plans and Specifications											
Construction Phase											
Review additional submittals											
Review additional RFIs	3										
Perform one additional site visit and one additional monthly progress meeting during construction	1										
Perform final walk through for Electrical Work											
Produce additional sheets to incorporate into Record Drawings	300										161
Total Basic Services Items	17	600				400		830			
Total Basic Services Expense Effort		\$ 321	\$ -	\$ -	\$ -	\$ 40	\$ -	\$ 208	\$ -	\$ -	\$ 570
Phase	Task	Subconsultants	Inland Geotechnics	[Name 2]	[Name 3]	[Name 4]					Total Sub Effort
Project Management											
Update the Quality Assurance & Quality Control Plan											
Provide monthly progress reports and invoices to the City of Round Rock (City)											
Manage project integration, scope, schedules, cost, quality, staff resources, subconsultants, communications, risk and procurements as necessary											
Preliminary Design											
Perform system curve calculations											
Confirm existing pumps need replacement											
Site visit to inspect pumps/valves and electrical											
Provide notes and bounds documentation (by Subconsultant)											
Design Phase											
Identify and recommend proposed pumps											
Confirm pipe size for new forceman											
Environmental investigation and documentation memo											
Produce additional 95% Specifications											



City of Round Rock West Wastewater Treatment Plant Force Main Amendment No. 1 5/16/2017										Project Fee Summary		
Detailed Cost Breakdown										Basic Services	Special Services	Total Project
Produce additional 95% Plans										\$ -		
Constructability Review on additional Plans/Specifications										\$ -		
95% Opinion of Probable Construction Cost										\$ -		
Bid Plans and Specifications										\$ -		
Bidding Phase										\$ -		
Produce additional addenda, if necessary										\$ -		
Produce additional sheets to incorporate into Confirmed Plans and Specifications										\$ -		
Construction Phase										\$ -		
Review additional submittals										\$ -		
Review additional RFI's										\$ -		
Perform one additional site visit and one additional monthly progress meeting during construction										\$ -		
Perform final walk through for Electrical Work										\$ -		
Produce additional sheets to incorporate into Record Drawings										\$ -		
Total Basic Services Subconsultants Cost										\$ 3,650		
Total Basic Services Subconsultants Effort										\$ 4,043		
												\$ 4,043
										Project Fee Summary		
										Basic Services	Special Services	Total Project
										35,087	-	35,087



1504 Chisholm Trail Road  
Suite 103  
Round Rock, TX 78681  
512-238-1200  
512-238-1251 fax  
TBPLS Firm Reg. No. 10059100

2 May 2017

Kira Iles, P.E., ENV SP  
Water/Wastewater Treatment, Transmission, and Utilities  
Freese and Nichols, Inc.  
10431 Morado Circle, Ste. 300  
Austin, TX 78759

RE: Boundary Surveying  
Project: Brushy Creek West WWTP WWL Improvement Project - Easement Preparation

Ms. Iles:

Inland Geodetics, LLC (Inland) is pleased to submit our proposal for professional land surveying services related to the above referenced project. Our proposal is to generate a survey plat and accompanying metes and bounds description for the CORR tract proceeding northerly from the plant and crossing Brushy Creek.

Below is a specific list of our proposed Scope of Services and estimated costs.

#### SCOPE OF SERVICES

1. Inland will recover and calibrate to the nearest CORR GPS Control System Monument to the project. The values will be relative to NAD 83 Texas State Plane Coordinates, Central Zone 4203 (GRID values scaled to surface position).
2. Inland will survey and depict improvements within the tract (if any). The data will include edges of pavement, fences, buildings, fences, adjoiner property corners, utilities and other pertinent information to boundary reconstruction.
3. Inland will perform sufficient research and field surveying to determine the boundary of the affected tracts as limited above.
4. Inland will prepare a survey plat with accompanying metes and bounds description for one parcel.

NOTE: Title review is not included in this proposal. If this service is required, an additional \$500.00 will be added to fee.

The ESTIMATED fee for the above services: **\$ 3,850.00**

Additional time requirements resulting from project scope changes, plan revisions, field recovery of or discrepancies of control provided will be considered reasonable cause for us to seek additional compensation for services not included in these amounts. A valid tax exemption certificate from the City of Round Rock for purchase of taxable goods and services will be required for this task.

Sincerely,

M. Stephen Truesdale  
Registered Professional Land Surveyor  
Licensed State Land Surveyor  
Inland Geodetics, LLC